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JAN 16 2006

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANT:** Alex Nugent  
**SERIAL NO.:** 10/730,708  
**FILED:** 12/08/2003  
**TITLE:** **ADAPTIVE NEURAL NETWORK UTILIZING NANOTECHNOLOGY-BASED COMPONENTS**

**EXAMINER:** Peter Coughlan  
**GROUP:** 2129  
**ATTY DKT NO.:** 1000-1214

**CERTIFICATE OF TRANSMISSION BY FACSIMILE**

Please forward all correspondence to:  
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Albuquerque, NM 87196-4484

*I hereby certify that this correspondence is being transmitted to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by facsimile transmission to the following fax number (571) 273-8300 on January 16, 2006.*

*Kermit Lopez*

Kermit Lopez

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENTS, REPLY AND REQUEST FOR RECONSIDERATION**  
**UNDER 37 C.F.R. § 1.111**

Dear Sir:

In response to the Office Action dated January 3, 2006 in the above captioned matter, please enter the following amendments and remarks:

Amendments to claims begin on Page 2 of this Paper.

Remarks begin on Page 8 of this Paper.

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